

USSR/Medicine - Typhus

FD-1624

Card 1/1 : Pub. 143-4/28

Author : Pshenichnov, A. B.; Raykher, B. I.; and Faydysh, A. T.

Title : Color microagglutination reactions with rickettsial antigens as a method of specifically diagnosing exanthematous typhus

Periodical : Zhur. mikro, epid. i immun. 7, 13-14, Jul 1954

Abstract : An effective microagglutination reaction carried out with drops of serum from suspected typhus patients and standard R. prowazeki strains on objective glasses is described in detail. This method, verified by 10 years of investigation, is extremely accurate, and can be used to diagnose both actual and past cases of typhus, and to test the immunity produced by vaccines. No references are cited.

Institution : Chair of Epidemiology and Microbiology, Molotov Medical Institute and Molotov Oblast Virology Laboratory

Submitted : December 24, 1953

PSEHNICHNOV, A.V.; RAYKHER, B.I.

Critical comments on the communication of Prof. Tokarevich and his coworkers on recurrent typhus, published in "Trudy" of the Pasteur Institute of Epidemiology, Microbiology and Hygiene (1952) Zhur. mikrobiol. epid. i immun. no.10:114-122 O 154. (MLRA 8:1)
(RELAPSING FEVER,)

RAYKHER, B. K.

Stalin, Josif, 1879-

Problems in the theory of the socialist state in the works of I. V. Stalin, uch. zap. Len. un, No. 129, 1951.

Monthly List of Russian Accessions, Library of Congress, May 1952, Unclassified.

RAYKHER, B. K.

Communism

Problems in the theory of the socialist state in the works of I. V. Stalin,
Uch. zap. Len. un, No. 129, 1951.

9. Monthly List of Russian Accessions, Library of Congress, May 1952, Uncl.

BELYUNOV, S.A., inzh.; DMITRIYEV, V.I., dots., kand. ekon. nauk; KUCHURIN, S.F.; LIN'KOV, M.V.; MULYUKIN, F.P.; NEDOPEKIN, G.K., inzh.; PUZYNYA, I.Ye., inzh.; RAYKHER, G.Kh., inzh.; TRUBACHEV, T.Ye., inzh.; TYVAN-CHUK, D.P., inzh.; UMBLIYA, V.E., kand. ekon. nauk; KHOKHLOV, N.F., dots. kand. ekon. nauk; CHUDOV, A.S., prof., doktor ekon. nauk; ERLIKH, V.S., inzh.; IVLIYEV, Ivan Vasil'yevich, red.; KRISHTAL', L.I., red.; KHITROV, P.A., tekhn. red.

[Planning in railroad transportation] Planirovanie na zheleznodorozh-
nom transporte; spravochnik. Moskva, Vses. izdatel'sko-poligr. ob"-
edinenie M-va putei soobshchenie, 1961. 470 p. (MIRA 14:11)
(Railroads--Management)

BELCV, Ivan Vasil'yevich, kand. ekon. nauk i ts.; BOROVY, Natan
Yefimovich, kand. tekhn. nauk, dots.; KHAMICHENKO,
Nikolay Gavrilovich, kand. ekon. nauk, dots.; KANIN,
Grigoriy Solomonovich, inzh.; KHANUKOV, Yevgeniy Davidovich,
doktor ekon. nauk, prof.; KRCKHLOV, Nikolay Federovich,
kand. ekon. nauk, dots.; IESKOVA, L.N., red.

[Economics of railroad transportation] Ekonomika zheleznico-
dorozhnogo transporta. Moskva, Transport, 1965. 359 p.
(MIRA 12:10)

BELOV, I.V., dotsent, kand.ekon.nauk; BOROVOY, N.Ye., dotsent, kand.tekhn.
nauk; VINNICHENKO, N.G., dotsent, kand.ekon.nauk; RAYKHER, G.S.,
inzh.; KHANUKOV, Yevgeniy Davydovich, prof., doktor ekon.nauk;
KHOKHLOV, N.F., dotsent, kand.ekon.nauk; PESKOVA, L.N., red.;
KHITROV, P.A., tekhn.red.

[Economics of railroad transportation] *Ekonomika zheleznodo-
rozhnogo transporta. Pod obshchei red. E.D.Khanukova. Moskva,
Vses.izdatel'sko-poligr.ob"edinenie M-va putei soobshchenia,
1960. 298 p. (MIRA 14:3)*

(Railroads--Finance)

RAYNER, G.S.

What has to be done to improve the organization of freight transportation. Zhel.dor.transp. 45 no.10:20-23 0 '63.

(MIRA 16:11)

1. Nachal'nik otdela perevozok i gruzovykh potokov Planovo-ekonomicheskogo upravleniya Ministerstva putey soobshcheniya.

RAYKHER, G.S., inzhener.

Growth of freight turnover and more efficient transport in the sixth
five-year plan. Zhel.dor.transp.37 no.4:35-40 Ap '56. (MIRA 9:7)
(Railroads--Freight)

RAYKHER, I.I.; MAL'TSEVA, Z.M.

Method of immunoelectrophoresis. Lab.delo 5 no.2:26-28
Mr-Ap '59. (MIRA 12:5)

1. Iz biokhimicheskoy laboratorii i syvorotochnogo otdela
Permskogo nauchno-issledovatel'skogo instituta vaktsin i
syvorotok (dir. A.P.Kobyl'skiy).
(ANTIGENS AND ANTIBODIES) (ELECTROPHORESIS)

RAYKHER, I. I., CAND BIO SCI, ^{*data for*} "~~MATERIAL~~ ON THE STUDY
OF T- AND GAMMA-GLOBULINS OF ANTITOXIC SERUMS." PERM',
1960. (MIN OF HEALTH RSFSR, PERM' STATE MED INST). (KL,
3-61, 211).

RAYKHER, I.I.; PROTSEROVA, N.M.; ROMANOVA, N.M.; MASTERSKIKH, L.A.

On the problem of the gamma globulin content of blood serum of donors
(electrophoretic and turbidimetric determination). Probl. genet.
i perel. krovi 5 no.2:52-54 F '60. (MIRA 14:5)

1. Iz biokhimicheskoy korevoy laboratorii Permskogo nauchno-
issledovatel'skogo instituta vaktsin i syvorotok (dir. A.P.
Kobyl'skiy).

(GAMMA GLOBULIN)

(BLOOD DONORS)

RAYKHER, I.I.

Effect of hyperimmunization on the protein composition of sera in horses producing immune sera. Report No.1. Zhur.mikrobiol.epid. i immun. 31 no.8:40-46 Ag '60. (MIRA 14:6)

1. Iz Permskogo instituta vaktsin i syvorotok.
(SERUM) (BLOOD PROTEINS)

MIRSKOVA, V.N.; VOYUTSKAYA, M.I.; STARKOVA, G.A.; TARASOVA, N.I.; TRET'YAKOVA,
K.I.; RAYKHER, I.I.

Study of antitoxin losses in the purification and concentration
of sera by the diapherm-3 method. Zhur.mikrobiol.epid.i immun.
31 no.8:139-141 Ag '60. (MIRA 14:6)

1. Iz Fermskogo instituta vaktsin i syvorotok.
(SERUM)

M

Country : USSR
Category : CULTIVATED PLANTS. FRUITS. Berries.
Abs. Jour. : REF ZHUR-BIOL..21.1958.NO-96155
Author : Boynov, L.M.
Instit. :
Title : The Influence of the Stock on Grafted Grape Seedlings.
Orig. Pub. : Sadovodstvo, vinogradarstvo i vinodeliye Moldavii, 1957, No.6, 32-35
Abstract : When hybrid seedlings of different ages were grafted on mature vines of *Riparia x Rupestris* 101-14 (a root stock) one observed accelerated entry into fruiting, increased mildew resistance, a change in the productivity, and in some cases in the color of the berries and biological type of flowers.
Part: 1/1

SOLLOGUB, V.B.; RAYKHER, L.D.

Some recommendations for conducting seismic observations in
borehole testing. Razved.i okh.nedr 21 no.6:43-46 N-D '55.
(MLRA 9:12)

(Prospecting--Geophysical methods)

RAYKHER, L.D.

Nomogram for determining the values of effective speeds. Trudy Inst.
geol. nauk AN URSR. Ser. geofiz. no.1:136-141 '56. (MLRA 10:8)
(Seismic waves) (Hodograph) (Nomography (Mathematics))

RAYKHER, L.D.

~~RAYKHER, L.D.~~
Detailed analysis of faulted structures. Prikl. geofiz. no.16:98-
113 '57. (MLBA 10:8)

(Seismology) (Faults (Geology))

RAYKHER, L.D.

Seismic logging of boreholes by distant blasts. Trudy Inst. geol.
nauk AN URSR. Ser. geofiz. no.2:183-186 '58. (MIRA 11:6)

1. Zapadnaya geofizicheskaya kontora tresta "Ukrnefttegeofizika."
(Logging (Geology))

S/169/62/000/007/030/149
D228/D307

AUTHOR: Raykher, L. D.
TITLE: Method and results of seismic survey work in the Ciscarpathian Trough's outer zone and on the Russian Platform's south-west margin

PERIODICAL: Referativnyy zhurnal, Geofizika, no. 7, 1962, 22, abstract 7A147 (V sb. Sostoyaniye i perspektivy razvitiya geofiz. metodov poiskov i razvedki polezn. iskopayemykh, M., Gostoptekhizdat, 1961, 283-292)

TEXT: The author describes the tectonic structure and deep and surface seismo-geologic conditions in Ciscarpathia's main gas-bearing province -- the Ciscarpathian Trough's outer zone and the adjacent region of the Russian Platform's south-west margin. A description is given of the main methodical and technical procedures that have been developed and introduced into practical seismic survey work in these areas. They include the wide application of the grouping of seismic detectors and especially explosions,

Card 1/3

S/169/62/000/007/030/149
D228/D307

Method and results ...

with the use of several filtrations and different amplification levels; and also two new ways of exploring gently-dipping structures by the reflection method: the flat front method (FFM) and the center ray method (CRM). These techniques allow the accuracy of determining the slope angles of reflecting boundaries to be substantially raised simultaneously with the operational productivity. The FFM method consists of the creation of a cylindrical incident wave by simultaneously exploding charges at a series of points, located along the whole of the line on which the recording devices are placed. The resulting hodograph is a mirror image of the reflecting boundary. The distance between explosion points amounts to 100 - 150 m. Various advantages of the FFM are indicated. The CRM is based on observations of reflected waves only directly at the detonation point (single-channel recording), after which the numerous recordings, obtained for nearby detonation points (interval of 200 - 250 m), are reduced onto one seismogram. The complex application of the correlation-refraction and the reflection methods is extremely effective. Some improvements were also introduced into the interpretation procedure. Data characterizing the geologic



Card 2/3

Method and results ...

S/169/62/000/007/030/149
D228/D307

effectiveness of seismic surveying in these areas are cited. [Ab-
stractor's note: Complete translation.]



Card 3/3

RAYKHER, L.D.; VASIL'YEV, Yu.A.; KHARAZ, I.I.

Method and technique of field work using the plane front method.
Neft. i gaz. prom. no.3:11-13 J1-S '64. (MIRA 17:12)

VASIL'YEV, Yu.A.; RAYKHER, L.D.; SAGALOVA, Ye.I.

Conditions of formation of a sum wave induced by a linear
arrangement of explosion points. Izv. AN SSSR. Ser. geofiz.
no.8:1195-1203 Ag '64 (MIRA 17:8)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

RAYKHER, L.D.; VASIL'YEV, Yu.A.; KHARAZ, I.I.; SAGALOVA, Ye.I.

Disturbances in pattern shooting on large prospecting areas.
Razved. i okh. nedr. 30 no.3:44-48 Mr '64 (MIRA 18:1)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy
institut.

VASIL'YEV, Yu.A.; FAYHER, L.D.; SAGALOVA, Ye.I.; KHARAE, I.I.

The flat front technique in the method of reflected waves.
Prikl. geofiz. no.38:25-44 '64. (MIRA 18:11)

ACC NR: AT6028962 SOURCE CODE: UR/0000/65/000/000/0003/0025

AUTHOR: Raykher, L. D.; Vasil'yev, Yu. A.; Kharaz, I. I.

ORG: Ukrainian Scientific Research Institute of Geological Prospecting
(Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut)

TITLE: Application of linear vibration sources in the method of
reflected waves

SOURCE: Vsesoyuznyy seminar po novoy metodike seysmorazvedki.
Seysmorazvedka s primeneniym gruppirovaniya vzryvov na dlinnykh bazakh
i sposoba tsentral'nykh luchey (Seismic prospecting using the grouping
of shots on long bases and the method of central rays); trudy seminar.
Moscow, Izd-vo Nedra, 1965, 3-25

TOPIC TAGS: seismic modeling, seismic prospecting, seismography,
underground explosion, geologic exploration, seismic wave, *tectonics*

ABSTRACT: An analysis is made of travel-time curves of reflected waves
generated by linear sources obtained by the plane wave-front method
(SPF) and the directed plane wave-front method (UPF). It is pointed
out that the shifting of the reflected wave limits the use of SPF, and
in regions with steeply sloping interfaces it is advantageous to use
UPF. In tracing faults the use of SPF and UPF makes it possible to

Card 1/2

ACC NR: AT6028962

improve detection of diffracted waves from the different shapes of the travel-time curves for reflected and diffracted waves. The choice of the shot-point parameters takes into account generation of interference and noise, the curvature of the reflecting interface, and the specific characteristics of the amplitude field of the reflected wave. By varying the shot spread parameters, it is possible to attenuate the even waves in the upper part of the cross section. Under laboratory conditions SPF and UPF may be compared by summing using special vibration patterns from single explosions within the geophone spread area. Studies are made of the method of processing seismograms, the interpretation of observed travel-time curves and their corrections, and methods of compiling cross sections. Analysis is performed of the accuracy of determination of geotectonic structure by SPF, UPF, and profiling by MOV. An example of successful use of UPF is given for a region with a complex geological structure. Orig. art. has: 9 figures and 9 formulas.

SUB. CODE: 08/ SUBM DATE: 30Apr65/ ORIG REF: 017

VASILEVYEV, Ya.A.; RAYZBERG, L.I.; SAKHAYEV, Ye.S.

Structure of the wave field of a straight-line homogeneous
discrete Π B group. Izv. AN SSSR. Fiz. aer. kosm. nauch. issled.
(MIRA 18:6)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedocheskii
institut.

RAYKHER, L.D.; BENDERSKIY, V.Ya.; VASIL'YEV, Yu.A.; KHARAZ, I.I.

Increasing the geological efficiency of seismic prospecting in
the inner zone of the cis-Carpathian trough and the southwestern
part of the Russian Platform. Neft. i gaz. prom. 3:12-14
Jl-S '65. (MIRA 18:11)

L 62974-63 EWT(1)/EWA(h) GW

ACCESSION NR: AP5018286

UR/0387/65/000/006/0010/0022

550.834.5

AUTHOR: Benderskiy, V. Ya.; Vasil'yev, Yu. A.; Raykher, L. D.; Kharaz, I. I.

55

55

55

55

25
23
B

TITLE: Elements of the theory of variable control of seismic wave fronts

12,55

SOURCE: AN SSSR. Izvestiya. Fizika zemli, no. 6, 1965, 10-22

TOPIC TAGS: seismic wave, shock wave front, geologic exploration, hodograph

ABSTRACT: The theory of controlling the shape of seismic wave fronts by active interference of waves at the source of elastic vibrations is studied. This interference is accomplished by grouping charges over short distances, or by directed linear wave sources. An analytic solution is obtained for the direct and inverse three-dimensional problems of seismic prospecting by the reflected wave method. Point, line, and surface sources are discussed in detail for an arbitrary configuration of the reflecting surface. It is shown that a three-dimensional travel-time curve can be produced for a reflected wave with a predetermined shape by constructing a null isochron of the corresponding configuration. It is shown that the coordinates of the null isochron are continuous and single-valued functions of the coordinates of the reflecting surface and the three-dimensional travel-time curve of the

Card 1/2

I. 62974-65

ACCESSION NR: AP5018286

reflected wave. The null isochron, reflecting surface, and travel-time curve of the reflected wave are members of a single, closed system; if two of these parameters are given, the third can be uniquely determined. An analytic expression is given for the delay time which must be used with a group of charges in order to obtain the travel-time curve in a given form. Orig. art. has: 33 formulas, 4 figures.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut
(Ukrainian Scientific Research Institute for Geological Exploration)

SUBMITTED: 12Jun64

ENCL: 00

SUB CODE: ES

NO REF SOV: 006

OTHER: 000

alc
Card 2/2

ACC NR: AR6016962

SOURCE CODE: UR/0169/65/000/012/D022/D022

AUTHOR: Raykher, L.D.; Vasil'yev, Yu.A.; Kharaz, I.I.; Gasilovskiy, K.S.; Sagalova, Ye. I.

TITLE: Methodology of flat front (SPF) and central rays (STsL) work techniques for regions with complex seismological conditions at depth

SOURCE: Ref. zh. Geofizika, Abs. 12D146

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 10, 1965, 3-9

TOPIC TAGS: seismology, seismic prospecting, ~~seismic prospecting methodology~~, flat front seismic prospecting, central rays seismic prospecting

ABSTRACT: Results of research for the establishment of theoretical bases, methodology and observation techniques for the use of the STsL and the SPF methods for complex seismological conditions are presented. The basic volume of STsL work was done within the limits of the Outer zone of the Precarpathian deflection (9.1 km) and in the Post-Carpathia (3.6 km). The distance between PB was taken as 100 m; a mixed grouping of 30 seismic detectors on a base of 30 and 60 m. was used. Use of this method both for reconnaissance and for detailed search is noted. Combination of the method with ordinary profiling is useful. For SPF, theory of spacial interpretation was developed and optimum sequence of operations determined for field work. SPF can be used either with profiling or independently in those cases where common methods do not guarantee the necessary reliability of the results. [Translation of abstract].

Card 1/1

SUB CODE: 08

UDC: 550.834.5

BENDERSKIY, V.Ya.; GUREVICH, B.L.; RAPOPORT, M.B.; RAYNER, L.D.; OBERVONSKIY,
M.I.

Using seismic prospecting in the study of subsalt deposits in the
Dnieper-Donets Lowland. Izv.vys.ucheb.zav.; geol. i razv. 8 no.1:
109-117 Ja '65. (MIRA 18:3)

1. Ukrainskiy nauchno-issledovatel'skiy geologorazvedennyy institut.

L 10795-07 INT(1) GW
ACC NR: AP7003511

SOURCE CODE: UR/0013/66/000/012/0090/0090

INVENTOR: Raykher, L. D.; Rapoport, M. B.; Cherkasskiy, N. V.; Chervonskiy, M. I.; Yuzevich, Yu. V.

ORG: none

TITLE: Method for constructing temporal seismic cross sections. Class 42, no. 182901 [Announced by Ukraine Scientific Research Geological Prospecting Institute]

SOURCE: Izobreteriya, promyshlennyye obraztsy, tovarnyye znaki, no. 12, 1966, 90

TOPIC TAGS: seismic wave, geophysics

ABSTRACT: Author's certificate no. 182901, dated 10 April 1965, has been issued to L. D. Raykher, M. B. Rapoport, N. V. Cherkasskiy, M. I. Chervonskiy and Yu. V. Yuzevich of the Ukrainian Scientific Geological Prospecting Institute for a method described as follows: "A method for constructing temporal seismic cross sections, using a single-track multichannel magnetic record. It differs in that for the purpose of increasing the quality of the reproduced material and speeding up the processing rate the rotating drum is exposed along its generatrix to seismic signals which are displayed on the screen of a cathode-ray tube; scanning begins in response to appearance of the time mark of a shot; transition from trace to trace is accomplished by rotation of the photo drum. [JPRS: 37,397]

SUB CODE: 03 / SUBM DATE: 10Apr65

Cord 1/174

UDC: 550.834

L 00584-66 EWT(1)/EMA(h) GN
ACCESSION NR: AP5021604

UR/0286/65/000/013/0074/0074

AUTHORS: Rapoport, M. B.; Chervonskiy, M. I.; Raykher, L. D.

44.55 44.55 44.55

TITLE: Method of producing seismic controllable guided systems by storage on a photolayer of variable density traces. Class 42, No. 172508

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 13, 1965, 74

31
B

TOPIC TAGS: seismography, seismic wave

44,55,12

ABSTRACT: This Author Certificate presents a method for producing seismic controllable guided systems by storage on a photolayer of variable density traces with the reproduction of magnetic seismograms. To separate the useful waves and to suppress the ordinary noise, time shifts compensating the time shifts of the separated waves are introduced into the stored signals. Control by the guided systems is accomplished by the rotation of the recording line by an angle equal to the inclination angle of the co-phase axes of the separated waves.

ASSOCIATION: Ukrainskiy nauchno-issledovatel'skiy geologo-razvedochnyy institut (Ukrainian Geological Exploration Scientific Research Institute)

44,55

Card 1/2

Card 2/2

ORG: none

TITLE: Method for seismic exploration. Class 42, No. 177103 /announced by Ukrainian Scientific Research Geological Exploration Institute (Ukrainskiy nauchno-issledovatel'skiy geologorazvedochnyy institut) /

"APPROVED FOR RELEASE: 06/15/2000 CIA-RDP86-00513R001444410012-0"

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 24, 1965, 82

TOPIC TAGS: seismograph, seismology

ABSTRACT: This Author Certificate presents a method for seismic exploration with the use of controlled directional excitation systems (operating along any specified principle) and systems of vibration reception. The method increases the effectiveness of exploration and provides a unique selection of seismic waves from the irradiated objects. The interference systems in the vibration reception are coordinated with interference systems of the vibration excitation. This is accomplished by summing up displacements of any number of recordings based on a previously specified relationship which agrees with the vibration excitation principle.

SUB CODE: OS/ SUBM DATE: 20Jul64

Card 1/1 OLR

UDC: 550.834

ACC NR: AP6021459

SOURCE CODE: UR/0413/66/000/011/0080/0080

INVENTOR: Ryabinkin, L. A.; Raykher, L. D.; Rapoport, M. B.; Benderskiy, V. Ya.;
Chervonskiy, M. I.

ORG: None

TITLE: A method for adding seismic signals. Class 42, No. 182352

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 11, 1966, 80

TOPIC TAGS: seismology, light modulation, nonelectric signal equipment, signal processing

ABSTRACT: This Author's Certificate introduces a method for adding seismic signals by synchronous storage on a light sensitive layer exposed by a long writing line with successive brightness modulation by signals which are reproduced channel by channel. The procedure is designed for addition of reflected signals with hyperbolic cophase axes. During reproduction of each channel, the writing line is rotated through an angle which is determined by the time of arrival of the waves, their rate of propagation and the distance from the point of the explosion to the point of reception.

SUB CODE: 09 08/ SUBM DATE: 17Apr65

Card 1/1

UDC: 550.340.19

ACC NR: AP6021811

SOURCE CODE: UR/0413/66/000/012/0090/0090

INVENTOR: Gasilovskiy, K. S.; Raykher, L. D.

ORG: None

TITLE: A single-channel seismic station for central rays. Class 42, No. 182900

SOURCE: Izobreteniya, promyshlennyye obratzyy, tovarnyye znaki, no. 12, 1966, 90

TOPIC TAGS: seismologic station, recording equipment

ABSTRACT: This Author's Certificate introduces: 1. a single-channel seismic station for central rays. The installation contains a seismic amplifier, commutation unit, indicator, detonation unit and power supply. A detonation controller is installed in the detonator line to improve accuracy in synchronizing explosions. 2. A modification of this station in which the recording is automatically transferred from track to track. A voltage divider connected to the terminals of a galvanometer, and an incandescent lamp which is connected to the amplifier output and makes the recording by the variable density method are both mechanically coupled to the axis of the recording drum. 3. A modification of this station in which recording quality is improved by connecting a device for introducing static corrections to the commutation unit.

UDC: 550.340.19

Card 1/2

Ca

L 03145-67 ENT(1)/FCC GW

ACC NR: AR6017547

SOURCE CODE: UR/0169/66/000/001/DO14/DO14 7

AUTHOR: Parkhomovskiy, O.A.; Andreyeva, R.I.; Burakovskiy, L.Ye. Goncharova, T.A.;
Grigor'yeva, A.I.; Ivanets, N.I.; Ivanyuta, M.M.; Kozar, L.T.; Naykher, L.D.;
Senina, A.S.; Tkachenko, Zh. Ya.; Tahir, D.G.

TITLE: Determination of the development level of the technique and technology of geological prospecting for oil and gas in the Ukraine

SOURCE: Ref. zh. Geofizika, Abs. 1D97

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 10, 1965, 10-17

TOPIC TAGS: prospecting, seismic prospecting, ~~oil prospecting~~, gas prospecting,
PETROLEUM, magnetometer, gravimetry / M-2 MAGNETOMETER, p

UKRAINE
ABSTRACT: Geological-geophysical prospecting for oil and gas, completed on the Ukraine during 1960-1962 was analyzed. At present all the oil-bearing territory of the Ukraine is covered by prospecting survey with the M-2 magnetometer. The cost of study was 46.4 roubles/km². The output and precision of the aeromagnetic survey is much better. The gravimetric survey is basically complete. The cost of the total survey was 92.2 roubles per km² in 1960 and 47.2 roubles in 1962. Highly precise gravimeters (.01 - .03 mgal) can elucidate various anomalies. In spite of the relative cheapness of of the electro-recon method, and its mobility, it has not been afforded the deserved development in the Ukraine. Volume of seismic work reaches 87% of the total geophysi-

Card 1/2

UDC: 550.830(477)

L 06143-67

ACC NR: AR6017547

cal work volume. Cost of 1 km of seismic profile work was 560-850 roubles. In 1962, seismic reconstructing instrumentation for the automatic processing of seismograms and design of boring sections; has been developed. Techno-economical indices of structural mapping boring are very high; those of structural-recon boring are at relatively low levels. On the basis of consideration of the possibilities of each method, a methodology for the recon of oil and gas is proposed. Translation of abstract .

SUB CODE: 08

Card 2/2 *mte*

ACC NR: AR6024842

SOURCE CODE: UR/0169/66/004/004/D020/D020

AUTHOR: Chervonskiy, M. I.; Rapoport, M. B.; Raykher, L. D.; Seliverstov, B. P.

TITLE: Procedures for recording seismic survey data in automatic processing of seismograms

SOURCE: Ref. zh. Geofizika, Abs. 4D130

REF SOURCE: Tr. Ukr. n.-i. geologorazved. in-t, vyp. 11, 1965, 92-99

TOFIC TAGS: seismic survey, seismography, automatic data processing

ABSTRACT: The distinctive features of different forms of recordings used in the automatic construction of time profiles are examined. In recording by using the method of variations, the time profiles are formed by introducing the synchronization axes which serve as reflecting boundaries. Accounting for the form of recording is possible by tracing the reflecting boundaries. In recording by using the method of variable density, the variable density seismograms with straightened synchronization axes form the time profiles directly. The variable density recordings are easily applied to contact printing where the necessary changes in the horizontal and vertical scales may be made. The time profiles made on the basis of variable density recordings are more descriptive and convenient for processing than the profiles made on the basis of the recordings using the method of variations. Their disadvantage lies in the lack of vibration information. Recordings using the variable width method are widely used

Card 1/2

UDC: 550.834

ACC NR: AR6024842

In the MRNP apparatus as reproducible recordings. The seismograms using this form of recording permit the study of peculiarities of all forms of recordings. Combined forms of different recordings, e.g., the superposition of variational and variable density recordings, has features belonging to both types of recordings discussed. [Translation of abstract] R. Matveyeva

SUB CODE: 08, 09, 05

Card 2/2

ACC NR: AR6022470

SOURCE CODE: UR/0169/66/000/003/D022/D022

AUTHOR: Raykher, L. D.; Vasil'yev, Yu. A.; Kharaz, I. I.

TITLE: The method of controlled flat front and its field procedure as a modification of the MOV method of seismic prospecting

SOURCE: Ref. zh. Geofiz, Abs. 3D137

REF SOURCE: Tr. Ukr. n.-i geologorazved. in-t, vyp. 11, 1965, 100-105

TOPIC TAGS: seismic prospecting, geologic survey

TRANSLATION: The method of controlled flat front essentially consists of turning the flat front of the emitted seismic wave through a predetermined angle from the day surface to insure the parallelism of this front to the reflecting surface. In such a case, slopes of the line of shot moments and of the trace of the reflected wave are equal, though opposite in sign. The total time of retardation produced by this method may be determined from these two, provided that the principle of symmetry is complied with. Distances l between the points of shots, which contribute to the formation of a flat wave at depth H , can be determined from the formula:

$$l = \frac{1}{\cos \alpha} \sqrt{\frac{\lambda H}{N-1}}$$

UDC: 550.834

Card 1/2

ACC NR: AR6022470

where λ is the wavelength, N is the number of flat waves in the emitted group, and α is the angle of inclination of the flat front. Distances between the reception points are selected in the same way as in the SPF method (RZh Gfiz, 1965, 2D160). As a rule the bases of emission and reception are coincident. Neighboring setups are serviced by one or more channels. G. Shekhtman.

SUB CODE: 08

Card 2/2

ACC NR: AP7004764

SOURCE CODE: UR.0413/67/000/001/0076/0076

INVENTOR: Raykher, L. D.; Gasilovskiy, K. S.; Chervonskiy, M. I.

ORG: None

TITLE: A method for storage of seismic signals. Class 42, No. 190030

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 1, 1967, 76

TOPIC TAGS: seismograph, nonelectric signal equipment, signal recording, photographic material

ABSTRACT: This Author's Certificate introduces a method for storage of seismic signals on a photographic layer using variable-density recording with exposure correction by automatic alteration of signal amplification. The number of signals which can be stored is increased and the dynamic range is extended by recording adjacent tracking lines on the photographic layer with subsequent superposition of light signals proportional to the amplitude of the seismic vibrations. Readout is done from the entire band made up of the tracking lines.

SUB. CODE: 08/ SUBM DATE: 13Mar64

Card 1/1

UDC: 550.834

RAYKHER, L. I.

Relation of intensity of immunogenesis to original sensitivity of animals to the antigen and to the physiological mobility of immunological processes. Biul. eksp. biol. i med. 40 no.9: 58-62 S '55. (MLRA 8:12)

1. Iz eksperimental'noy laboratorii Molotovskogo nauchno-issledovatel'skogo instituta vaktsini syvorotok (dir.-kandidat meditsinskikh nauk A.P.Kobyl'skiy, nauchnyy rukovoditel' prof. G.V.Peshkovskiy)

(ANTIGENS AND ANTIBODIES,

antibody form., relation to original sensitivity of animal to antigen & to physiol. factors of immunol. processes)

RAYKHER, L.I.

Relation of intensity of immunogenesis to the original sensitivity of animals to the antigen and to the dynamics of immunogenic processes. Report no.2: The mobility of immunogenic processes on increased irritability of the nervous system induced with strychnine. Biul. eksp. biol. i med. 40 no.11:47-49 N '55. (MLRA 9:1)

1. Iz eksperimental'noy laboratorii Molotovskogo nauchno-issledovatel'skogo instituta vaksini syvorotok (dir.-kandidat meditsinskikh nauk A.P. Kobyl'skiy, nauchn rukovoditel'-prof. G.V. Peshkovskiy).

(STRYCHINE, effects

on immunogenesis after vacc.)

(VACCINES AND VACCINATION,

eff. of strychnine on immunogenesis)

Experimental study of the adaptive capacity of the agent of the tick-borne spotted fever in Siberia with a view to the practical utilization of the data obtained. p. 112

"An experimental study of the adaptive capacity of the agent of the tick-borne spotted fever in Siberia with a view to the practical utilization of the data obtained." p. 112

Экспериментальное исследование адаптационных способностей возбудителя тифа пятнистого клещевой в Сибири с целью практического использования полученных данных. 22-29 октября 1960, г. (Лекция доложена на симпозиум по проблемам и болезням с природными очагами 22-23 октября 1960, Ленинградский, 1960, Академия медицинских наук СССР и Академия наук СССР, № 1 20 стр.

Perm' Inst. of Vaccines and Sera

PSHENICHNOV, A.V.; NOSKOVA, Ye. G.; RAYKHER, L.I.; VAYSMAN, I. Sh.

Certain characteristics of post-infection immunity in typhus following re-infection of guinea pigs in various receptor zones. Zhur. mikrobiol. epid. i immun. 29 no.10:99-102 0 '58. (MIRA 11:12)

1. Iz Permskogo instituta vaktsin i syvorotok.

(TYPHUS, immunol.

post-vaccinal immun. after re-infect. of guinea pigs into various receptor zones (Rus))

K. YAFFE, I.I. (Tartu)

Some aspects of immunological problems in the works of the Tartu
Scientific Research Institute of Vaccines and Serums. Tartu
Farm. gov. med. inst. 43.54-60 '63. (MIRA 17-6)

RAYKHER, Moisey Yefremovich; KAMINSKIY, Iosif Naumovich; SUROVA, V.A.,
red.izd-va; KOROVENKOVA, Z.A., tekhn.red.

[Work-time study in mines] Issledovanie rabochego vremeni na
shakhtakh. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po gornomu
delu, 1960. 226 p.

(MIRA 13:7)

(Time study) (Coal mines and mining)

GERCHIKOV, Solomon Semenovich, prof. [deceased]; RAYKHER, M.Ye.,
otv.red.; SUROVA, V.A., red.izd-va; PROZOROVSKAYA, V.L.,
tekhn.red.

[Organization in coal mining] Organizatsiia proizvodstva
v ugol'noi promyshlennosti. Izd.3., perer. i dop. Moskva,
Ugletekhizdat, 1959. 498 p. (MIRA 12:8)
(Coal mines and mining) (Mine management)

RAYKHER, Moisey Yefremovich, prof.; GUBERMAN, Issak Davidovich, kand.
tekhn.nauk; LYUBARSKIY, I.L., otv.red.; GOLUBYATNIKOVA, G.S.,
red.izd-va; PROZOROVSKAYA, V.L., tekhn.red.

[Principles for norm setting for material expenditures in coal
mining] Osnovy normirovaniia raskhoda materialov v ugol'noi
promyshlennosti. Moskva, Gos.nauchno-tekhn.izd-vo lit-ry po
gornomu delu, 1960. 157 p. (MIRA 13:10)
(Coal mines and mining--Equipment and supplies)

RAYKHER, N. I.

3091. Variability of *Rickettsia prowazeki* under long-continued cultivation outside the organism of warm-blooded animals. B. I. Raikher and N. I. Raikher *Sborn. nauch. Rabot. Molotov. med. Inst.*, 1955, 71-78; *Referat. Zh. Biol.*, 1956, Abstr. No. 75579.—Long-continued cultivation (8 years) of strains of *R. prowazeki* by means of epidermal membranes and also in the louse reduced their toxicity, antileucocytic action and virulence for warm-blooded animals with full retention of antigenic properties. The experiments carried out indicate the possibility of qual. changes in strains of rickettsiae depending on their cultural conditions; the question of the irreversibility of these changes is not settled. (Russian)

C. C. BARNARD

2

Author, H. J.

"Material on the experimental study of trench fever." Lomonosov State
Medical Inst. Moscow, 1957. (Dissertation for the Degree of Doctor
in Medicine).

Knishnyaya leishin
No. 1, 1954, Moscow

RAYKHER, S. A.

Tekhnika bezopasnosti v termicheskikh tsekhakh. Moskva, Mashgiz, 1950. 143 p.
diagrs.

(Safety measures in heat-treatment shops.)

DLC: TJ1177.R3

SO: Manufacturing and Mechanical Engineering in the Soviet Union,
Library of Congress, 1953.

AID P - 1499

Subject : USSR/Medicine

Card 1/1 Pub. 37 - 14/19

Author : Raykher, S. A.

Title : On the articles by Yu. A. Osipov discussing the effect of high-frequency currents on the human organism

Periodical : Gig. i san., 2, 52-53, F 1955

Abstract : The author asserts that the above problem has hardly been investigated from the point of view of hygiene and labor protection and therefore Osipov's work deserves attention. However, his conclusions are not based on thorough study and consequently are questionable.

Institution: None

Submitted : No date

RAYKHER, S. A.

Cand Tech Sci - (diss) "Study of air medium and problems of techniques of safety in thermal processing in machine-building." Minsk, 1961. 13 pp; (Ministry of Higher, Secondary, and Professional Education Belorussian SSR, Belorussian Polytechnic Inst imeni I. V. Stalin); 150 copies; price not given; (KL, 6-61 sup, 224)

AID P - 5609

Subject : USSR/Engineering

Card 1/1 Pub. 107-a - 9/12

Author : Raykher, S. A., Eng.

Title : Certain air conditions prevailing during gas-flame processing of metals.

Periodical : Svar. proizv., 12, 25-27, D 1956

Abstract : The author describes tests of the ambient air while welders are working on metal with oxy-gas equipment, as carried out at the Kiyev Polytechnic Institute laboratories. Some 43 air samples were taken and analyzed, and 7 practical suggestions are given. Five tables.

Institution : As above

Submitted : No date

RAYKHER, S.A.

Electo-iphthalmia in arc-welding. Vest.oft. 69 no.6:26-27 N-D '56.
(MIRA 10:2)

1. Iz Kiyevskogo ordena Lenina politekhnicheskogo instituta.
(OPHTHALMIA, prev. and control
in arc-welders, prev.)
(OCCUPATIONAL DISEASES, prev. and control
ophthalmia in arc-welders, prev.)

RAYKHER, S.A., inzh.

"Fire prevention in machinery industry" by M.L. Shevelev. Reviewed
by S.A. Raikher. Mashinostroitel' no. 12:43 D '57. (MIRA 10:12)
(Mill and factory buildings--Fires and fire prevention) (Shevelev, M.L.)

BAIKHER, S.A. Inzhener.

"Brief handbook for heat treatment workers" by I.S. Kamenichnyi.
Reviewed by S.A. Baikher. Vest. mash. 37 no.4:85 Ap '57.
(Metals--Heat treatment) (Kamenichnyy, I.S.) (MIRA 10:6)

RAYKHER, S.A.

Safety measures during heat treatment of automobile parts. Avt. prom.
no.1:37-38 Ja '58. (MIRA 11:2)

1. Kiyevskiy politekhnicheskiy institut.
(Steel--Heat treatment)
(Automobile industry--Safety measures)

KAYA DER. 6.7.

AUTHOR: Raykher, S.A., Engineer

110-4-23/25

TITLE: Questions of Electrical Accidents (K voprosam elektro-travmatizma)

PERIODICAL: Vestnik Elektropromyshlennosti, 1958, No. 4, pp. 74 - 75 (USSR).

ABSTRACT: Electrical accidents in industrial undertaking, first-aid stations and other medical establishments have been investigated to analyse all cases of electrical accidents in the undertakings of a large industrial centre. The distribution of electrical accidents between different types of equipment is given in Table 1. Thirty-three per-cent. of all accidents were to the eyes; the distribution of cases between welders and others as a percentage of all the cases is indicated in Table 2. The next largest group were cases of contact with various kinds of electrical equipment. The nature of the damage suffered, shock, etc. is given in Table 3. Of cases with a serious outcome, the distribution between different kinds of electrical equipment appears in Table 4. Data about fatal accidents are given in Table 5. There are 5 tables.

ASSOCIATION: Kiyev Polytechnical Institute (Kiyevskiy politekhnicheskii institut)

SUBMITTED: July 3, 1957

AVAILABLE: Library of Congress

Card 1/1

RAYKHRR, S.A., inzhener.

Some characteristics of air conditions during flame treatment of
metals. Svar. proizv. no.12:25-27 D '56. (MLRA 10:9)
(Air--Pollution) (Gas welding and cutting)

RAYKHER, S.A., inzh.

Problems of injuries from electricity. Vest. elektroprom. 29 no.4:
74-75 Ap '58. (MIRA 11:4)

1. Kiyevskiy politekhnicheskii institut.
(Electricity, Injuries from)

RAYNER, S. A.

"Some Investigations of Safety Engineering During Heat Processing in Machine Construction." Cand Tech Sci, Kiev Polytechnic Inst, Kiev, 1954. (IzKhim, No 22, Nov 54)

Survey of Scientific and Technical Dissertations Defended at USSR Higher Educational Institutions (11)

SO: Sum. No. 521, 2 Jun 55

RAYKHER, S.A., inzhener.

Liberation of carbon oxide during the heating of steel with high-frequency current in surface hardening. Vest.mash.34 no.1:96-97
Ja '54. (MLRA 7:2)

(Hard facing)

VENEDIKTOV, Anatoliy Vasil'yevich, akademik [deceased]; RAYKHER, V.K.,
prof., otv. red.; SHILOV, L.A., red.; VODOLAGINA, S.D., tekhn.
red.

[Organization of state industry in the U.S.S.R.] Organizatsiia
gosudarstvennoi promyshlennosti v SSSR. Leningrad, Izd-vo
Leningr. univ. Vol.2. 1921-1934. 1961. 863 p. (MIRA 15:3)
(Industrial organization)

CHEBALAK, A.N.; RAYKHER, Ya.G.

Automation of the processes of feed yeast production. *Spirt.-*
prom. 28 no.2:16-20 '62. (MIHA 15:3)

1. Institut "Giprospirtvino".
(Yeast) (Automatic control)

FAYVHEP, E. A., Physician

"Umbilical Sepsis." Thesis for degree of Dr. Medical Sci. Sub 16 May 49, Second Moscow State Medical Inst imeni I. V. Stalin.

Summary 82, 18 Dec 52, Dissertations Presented for Degrees in Science and Engineering in Moscow in 1949. From Vechernyaya Moskva, Jan-Dec 1949.

BAYKHER, E.A.; EL'MAN, Ye, V.

Application of albomycin in pneumonia in infants during their first months of life. Sovet. med. 16 no. 11: 18-21 Nov 1952.
(GIML 23:3)

1. Professor for Baykher. 2. Of the Clinic for Children's Diseases (Head -- E. A. Baykher), Stavropol' Medical Institute (Director -- Docent P. V. Polosin).

BAGDASAROVA, E.M., assistant; RAYKHER, E.A., professor, zaveduyushchiy kafedroy;
BUDYLIN, V.G., professor, direktor instituta.

Treatment of rheumatism in children with prolonged sleep. *Pediatria* no.4:32-
34 JI-Ag '53. (MLBA 6:9)

1. Klinika detskikh bolezney Stavropol'skogo meditsinskogo instituta (for
Bagdasarova and Raykher). 2. Stavropol'skiy meditsinskiy institut (for
Budylin). (Sleep) (Chorea) (Rheumatic heart disease)

BALANTER, I.I.; ~~RAYKHER, Ya. G.~~

New standard type factory equipped with automation. Sakh.
prom. 37 no.5:48-55 My '63. (MIRA 16:6)

1. Gosudarstvennyy institut po proyektirovaniyu predpriyatiy
spirtovoy i vinodel'cheskoy promyshlennosti.
(Factories—Design and construction)
(Starch industry)

RAYKHER, Ya.G., inzh.

Interlocking system for tank filling. Mekh. i avtom.proizv. 19
no.3:17-19 Mr '65.

(MIRA 18:4)

RAYKHINSHEYN, S.I., kandidat tekhnicheskikh nauk.

Selection of tower cranes for apartment construction. Gor.khoz.
Mosk. 28 no.10:24-29 0 '54. (MLRA 7:11)
(Cranes, derricks, etc.)

S/169/60/000/006/019/021
A005/A001

Translation from: Referativnyy zhurnal, Geofizika, 1960, No. 6, p. 182, # 6777

AUTHORS: Tseppekha, Z., Raykhi', Ya., Segnal, L.

TITLE: The New Czechoslovakian Meteorite "Lugi" J

PERIODICAL: Astron. tsirkulyar, 1959, 18 iyunya, No. 203, p. 17

TEXT: On April 7, 1959, at 19^h30^m(Ut), a bolide was observed in the western part of Czechoslovakia, which caused 50 - 100 lux illumination intensity at a distance of 50 km. The velocity (20 km/sec), the inclination of the trajectory with respect to the earth's surface (43°), and the projection of the trajectory (at a distance of about 300 m from the projection of the detonation point) were determined from photographs. Not far from the village of Lugi, the meteorite of 4.5 kg weight was found.

Translator's note: This is the full translation of the original Russian abstract.

Card 1/1

S/035/60/000/006/029/038
A001/A001

Translation from: Referativnyy zhurnal, Astronomiya i Geodeziya, 1960, No. 6,
p. 67, # 5332

AUTHORS: Tseplekha, Z., Raykhl', Ya. Segnal, L.

TITLE: New Czechoslovakian Meteorite "Lugi"

PERIODICAL: Astron. tsirkulyar, 1959, iyunya 18, No. 203, p. 17

TEXT: On April 7, 1959, at 19^h30^m Universal time, a very bright bolide
was observed in the western part of Czechoslovakia. The trajectory of the
bolide flight was determined from the photographic and visual observations and
was projected on the ground surface. A stone meteorite weighing 4.5 kg was
found in 300 m from the spot of explosion (not far from the village of Lugi).

N. P. K.

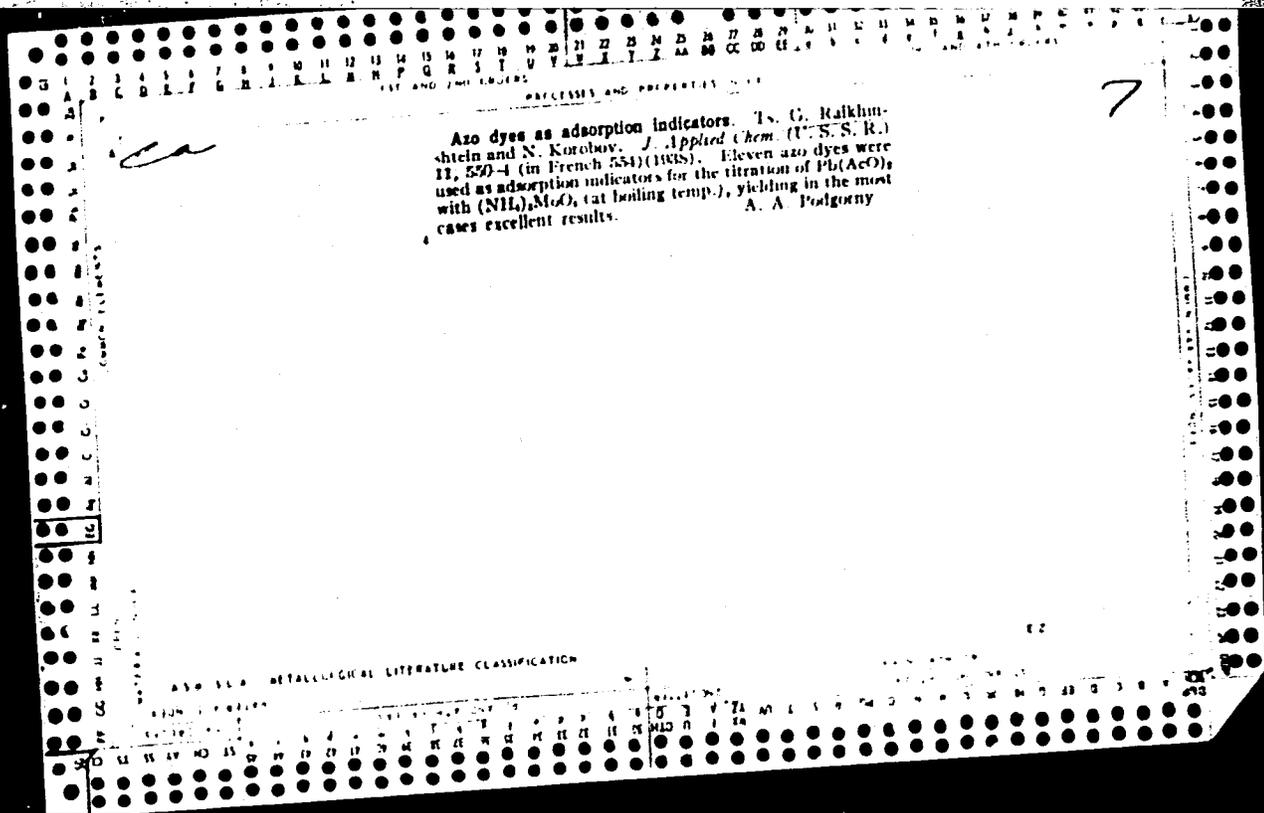
Translator's note: This is the full translation of the original Russian
abstract.

Card 1/1

RAYKHLIN, N.T.; STAROVEROVA, N.S.

Histochemical study of series of oxidative enzymes in the process of "spontaneous" malignant transformation of fibroblasts in tissue cultures. *TSitologiya* 4 no.3:290-296 My-Je '62. (MIRA 16:3)

1. Laboratoriya patomorfologii i Otdel etiologii i patogeneza opukholey Instituta eksperimental'noy i klinicheskoy onkologii AMN SSSR, Moskva.
(CANCER) (ENZYMES) (TISSUE CULTURE)



PROCESSES AND PROPERTIES

7

Oxidation-reduction indicators. Ts. G. Rakhimshtein:
Trans. Inst. Chem. Tech. Instano (U. S. S. R.) No. 2,
 36-40 (1959). - Results are reported on the use of fuchsin
 and novofuchsin as indicators in the titration of Sn and
 Sb with NaBrO_3 . The titration of Sb was found to be
 independent of the concn. of HCl and the temp. In the
 titration of Sn with fuchsin as an indicator insufficient
 HCl gave results a little too high. Best results were ob-
 tained by adding 2 ml. of concd. HCl and titrating at
 room temp. Similar results were obtained in the titration
 of Sn with novofuchsin. H. Z. Kamich

ASST. SLA METALLURGICAL LITERATURE CLASSIFICATION

MATERIALS

MATERIALS

7

1ST AND 2ND COPIES PROCESSED AND PROPERTIES INDEX

Ed

Potentiometric titration of tin with bromate. Ts. G. Raikhsimbata. *Trans. Inst. Chem. Tech. Ivanovo* (U. S. S. R.) 1960, No. 3, 77-0.—An approx. 0.1 N soln. of SnCl₂ contg. 50 ml. of concd. HCl per l. was prepd. and kept in C(t) to prevent oxidation. All titrations were performed in C(t). The potential measurements were carried out by the compensation method with a bright Pt electrode, a satd. calomel electrode and a galvanometer. A slow, drop-by-drop titration produces results which agree well with those obtained by iodometric titration. In the presence of a large quantity of acid a very slow titration causes greater deviations from the calcd. values than does a rapid titration. Four references. W. R. Henn

METALLURGICAL LITERATURE CLASSIFICATION

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
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PROCESSES AND PROPERTIES INDEX

7

A

Bromate method for the determination of arsenic. Ts. G. Raskhinshtein and T. V. Kocherygina. *Zhur. Anal. Khim.* 2, 173-8(1947).—The effect of acid concn. on the oxidation of As by bromate was studied by measuring the oxidation-reduction potential at the equiv. point of an arsenite soln. titrated with a bromate soln. It was observed that starting at very small concns. of HCl, trivalent As was oxidized not only by bromate but by free Br as well. The oxidation by free Br increased with the acid content up to an acid concn. of approx. 0.3 N. From then on up to an acid concn. of approx. 2 N, oxidation by Br₂ and Br run concurrently. Above this concn., oxidation by Br increased. Expts. were carried out with fuchsin as indicator in the titration of trivalent As with Br₂. Fuchsin proved usable at acid concns. of 0.3-1 N. The indicator changed from yellow (at high acid concns., violet) to orange at the equiv. point. This indicator is reversible.

M. Hosh

ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION

CA

7

Determination of small amounts of copper with hydrazine sulfate. Ts. G. Ralkhishvili (Chem. Technol. Inst., Ivanovsk), *Zarodkovi Lab.* 15, 1407-11 (1949). Bromatometric titration of hydrazine is best done with fuchsin, Tropocolin OO, or Thymol Blue; results within 2% of the truth are obtained. Small quantities of Cu (0.2-3 mg.) in alloys are detd. by pptn. of $\text{CuSO}_4 \cdot \text{H}_2\text{SO}_4 \cdot (\text{NH}_4)_2$ soln. of the ppt. in 5 N HNO_3 or in 6 N HCl , and bromatometric detn. of hydrazine. G. M. Kowaloff

2

CA

Dependence of the oxidation-reduction potential of bromide-bromate mixtures on the concentration of hydrochloric acid. Ts. G. Ralkhishvili (Chem.-Technol. Inst., Ivanovo). *Zhur. Obshch. Khim.* (J. Gen. Chem.) 30, 1956-61 (1950).—From measurements of the oxidation-reduction potential E in the system $\text{KBrO}_3 + \text{KBr}$, titrated with HCl from 0.008 to 3.75 M , i.e. following the reaction $\text{BrO}_3^- + 5\text{Br}^- + 6\text{H}^+ \rightleftharpoons 3\text{Br}_2 + 3\text{H}_2\text{O}$, the apparent E_s' of the system $\text{Br}_2 + 2e^- \rightleftharpoons 2\text{Br}^-$ was calculated by $E_s' = E - 0.081 - 0.080 \text{ pH}$; the apparent $E_s' = E_s + 0.030 \log(\gamma_1/\gamma_2)$, where γ = activity coeff., and subscripts 1 and 2 refer to Br_2 and Br^- , resp. In the presence of excess Br^- (concs. $c_1 = 0.006$, $c_2 = 0.01 M$, and $c_1 = 0.0006$, $c_2 = 0.001 M$), E_s' , and, consequently, also $\log(\gamma_1/\gamma_2)$, increases with the concn. of HCl up to 0.22 M , then decreases with further increasing HCl . The fall of E_s' is explained by the reaction $\text{Br}_2 + \text{Cl}^- \rightleftharpoons \text{Br}_2\text{Cl}^-$. In the presence of excess BrO_3^- , the system is complicated by the reactions (I) $2\text{BrO}_3^- + 10\text{Cl}^- + 12\text{H}^+ \rightleftharpoons \text{Br}_2 + 5\text{Cl}_2 + 6\text{H}_2\text{O}$; (II) $6\text{BrO}_3^- + 5\text{Cl}^- + 6\text{H}^+ \rightleftharpoons 3\text{Br}_2 + 5\text{ClO}_3^- + 3\text{H}_2\text{O}$; (III) $\text{ClO}_3^- + 5\text{Cl}^- + 6\text{H}^+ \rightleftharpoons 2\text{Cl}_2 + 3\text{H}_2\text{O}$. Reaction I begins, at $[\text{BrO}_3^-] = 0.001 M$, at about $[\text{HCl}] = 0.2 M$. First traces of reaction III were detected at $[\text{HCl}] \sim 1 M$, and at $[\text{HCl}] = 1.25 M$ the reaction was distinct. Reaction II is very slow, owing to the very small difference of the standard potentials of the systems $2\text{BrO}_3^- + 10e^- + 12\text{H}^+ \rightleftharpoons \text{Br}_2 + 6\text{H}_2\text{O}$ and $\text{ClO}_3^- + 6e^- + 6\text{H}^+ \rightleftharpoons \text{Cl}^- + 3\text{H}_2\text{O}$. In $\text{KBrO}_3 + \text{KBr}$ mixts. of equal concns. (0.05 and 0.006 M), E_s' increases with $[\text{HCl}]$ up to 0.25 M , then decreases with further increasing $[\text{HCl}]$. The fall at high $[\text{HCl}]$ is due mainly to the predominance of the system $\text{Cl}_2 + 2e^- \rightleftharpoons 2\text{Cl}^-$.

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PERSON, M.N., tekhnicheskiy redaktor

[Organization and planning of construction and assembly work in
establishing heat and gas supply and ventilation] Organizatsiya
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SYSHCHENKO, T.Ye.; FIRAGO, B.A.; SHCHEGOLEV, D.Ye.; NEVEL'SKIY, A.V.,
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BRATIYCHUK, M.V.; MAKSYUTOV, mladshiy nauchnyy sotrudnik;
KALIKHEVICH, F.F., mladshiy nauchnyy sotrudnik; IVAKINA, T.Ya.,
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L 40249-55 (1965) 1965 JCS/AS

ACC NR: AT6020808

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AUTHOR: Tseplekha, Z.; Raykhl', Ya.

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B+1

ORG: Astronomical Institute of the Czechoslovak Academy of Sciences, Ondr
Czechoslovakia (Astronomicheskiy institut Chekhoslovatskoy Akademii nauk)

TITLE: Program of photographing bright bolides by cameras with a 180 degree field of view
in Czechoslovakia

SOURCE: AN SSSR. Komitet po meteoritam. Meteoritika, no. 26, 1965, 119-131

TOPIC TAGS: meteor, meteorite, astronomic camera, wide field camera, stellar photography,
METEOR TRAIL

ABSTRACT: In this article the authors discuss the introduction of a new program of systemat-
ic photographing of bolides in Czechoslovakia which was recommended by the International
Astronomical Union. The main purpose of the bolide program is to determine the trajectories
and orbits of large meteors which can reach the earth's surface as meteorites. Furthermore,
systematic material containing accurate data on the orbits of bright bolides will be obtained.
Photographing of the trajectory of a bright bolide improves the possibility of finding the
meteorite. It has been established that the probability of finding a meteorite in a given region
as a result of photographing the trajectory of the bolide is increased approximately by 25%.

Card 1/2

L 40249-66

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By establishing a network of stations one bolide accompanying the fall of a meteorite can probably be successfully photographed in Czechoslovakia. The authors describe the "all-sky" camera to be used in the program. A map of Czechoslovakia indicates the 24 places where the cameras are situated for photographing the entire sky. In citing the results of using the all-sky camera system the author indicates that the brightest bolide which has been photographed so far was a bolide with a stellar magnitude of 11 recorded on October 19, 1963. The results of analyzing the photographs of this bolide are given in tabular form. The authors also describe the method of reducing the photographic films. Orig. art. has: 8 tables, 7 figures, and 27 formulas.

SUB CODE: 03,14/ SUBM DATE: 00/ ORIG REF: 000/ OTH REF: 002

Card 2/2 *MLP*

RAYKHLIN, F.I., kand.tekhn.nauk; Prinsipala uchastiye KALABUKHOVA, Z.,
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Special processing of fabrics containing synthetic and rayon
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Handwritten: Шлемцев

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[Basic ways of improving the maintenance and repair of lumbering machines] Osnovnye puti sovershenstvovaniia remonta i tekhnicheskogo obsluzhivaniia lesozagotovitel'nykh mashin. Moskva, Izd-vo "Lesnaia promyshlennost'," 1964. 132 p.
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